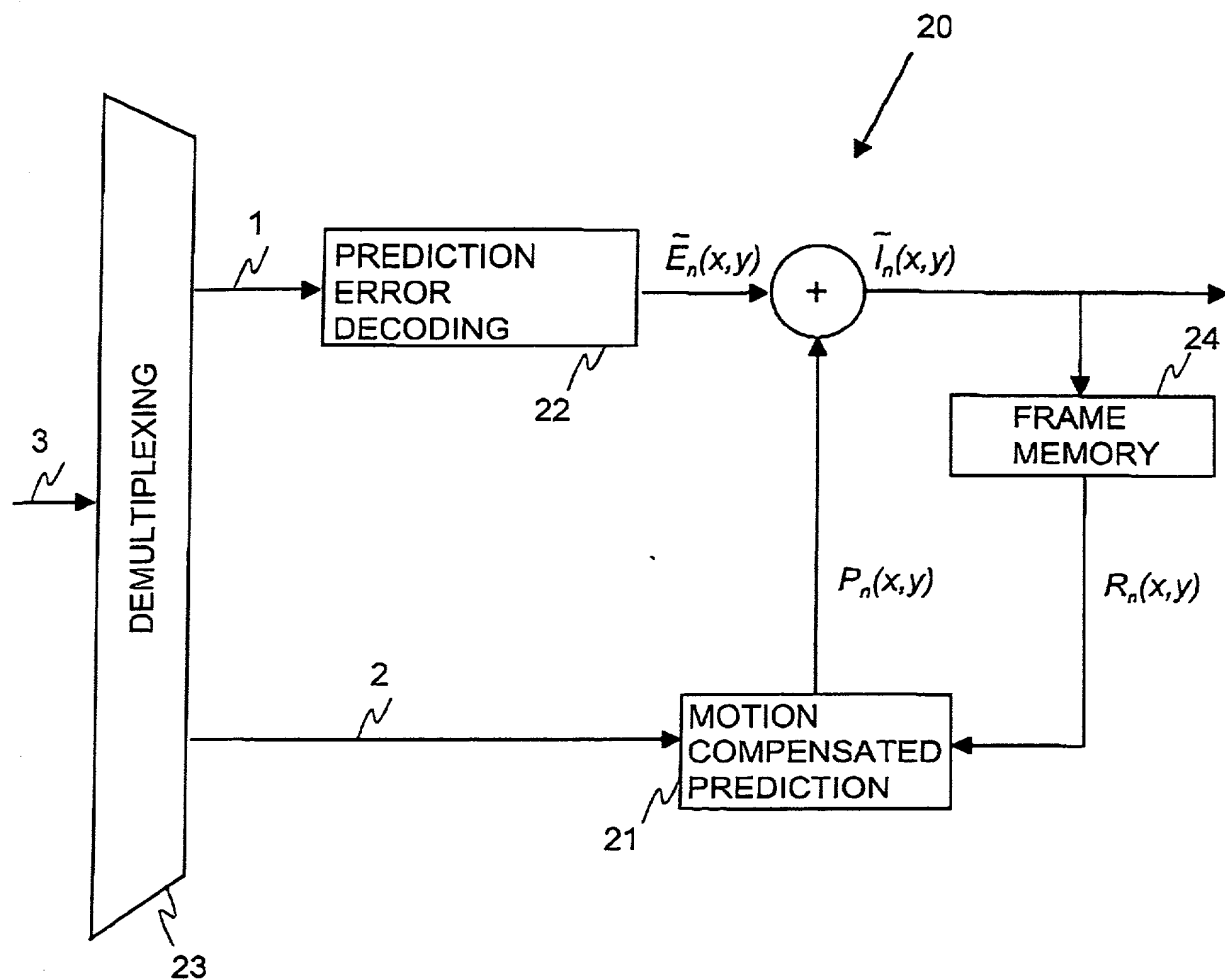


PRIOR ART

Fig. 1



PRIOR ART

Fig. 2

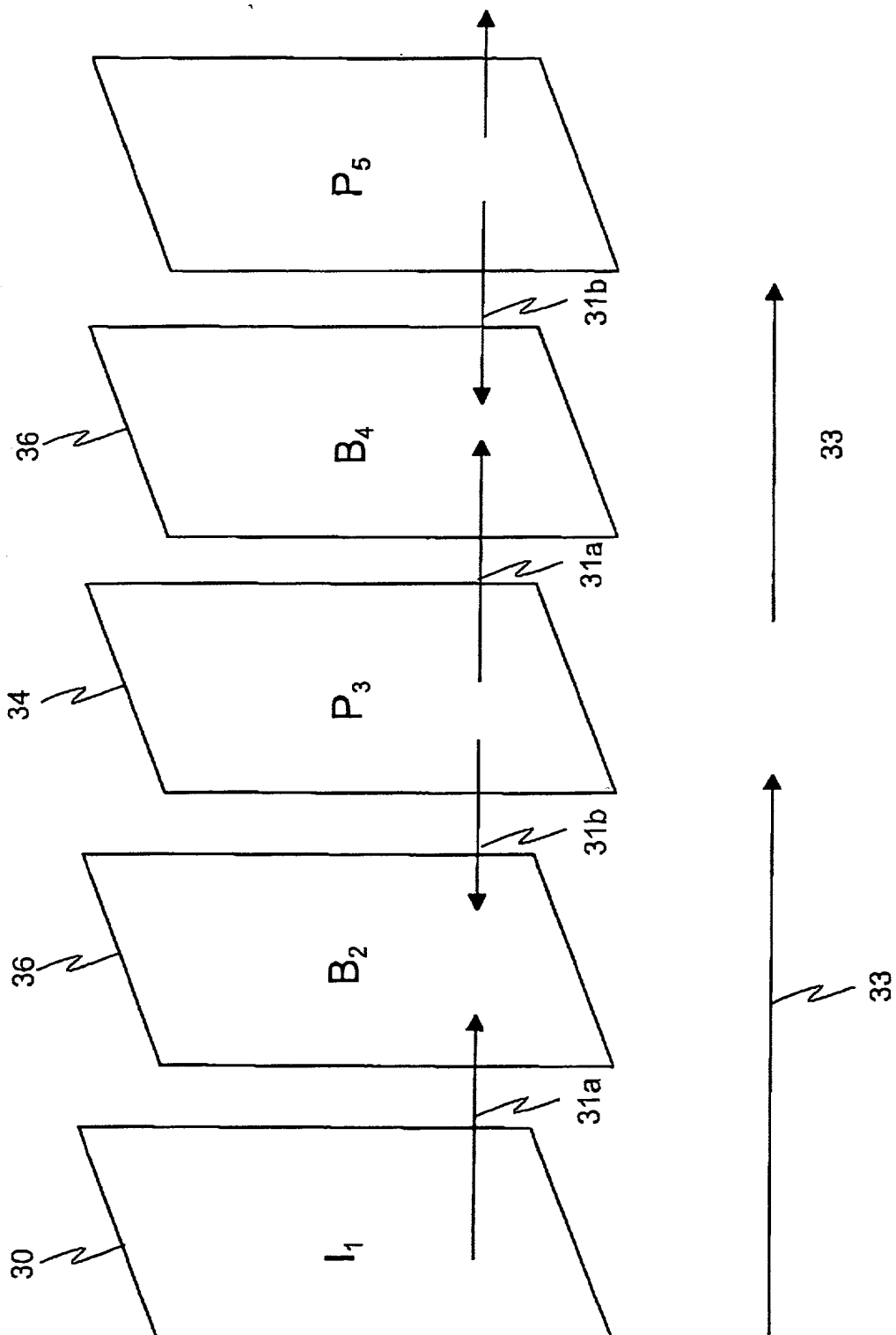
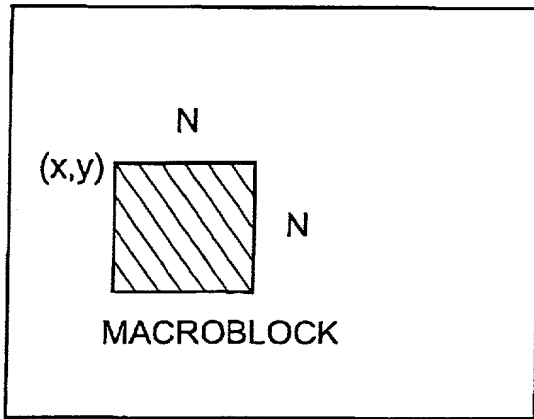


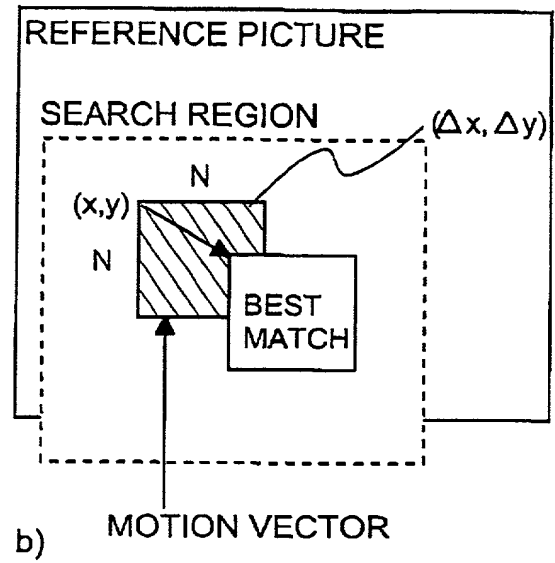
Fig. 3

CURRENT PICTURE



a)

REFERENCE PICTURE



b)

REFERENCE PICTURE

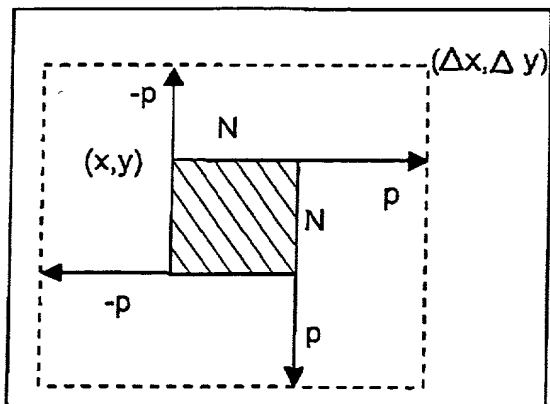
c)  $[-p,p]$  SEARCH REGION

Fig. 4

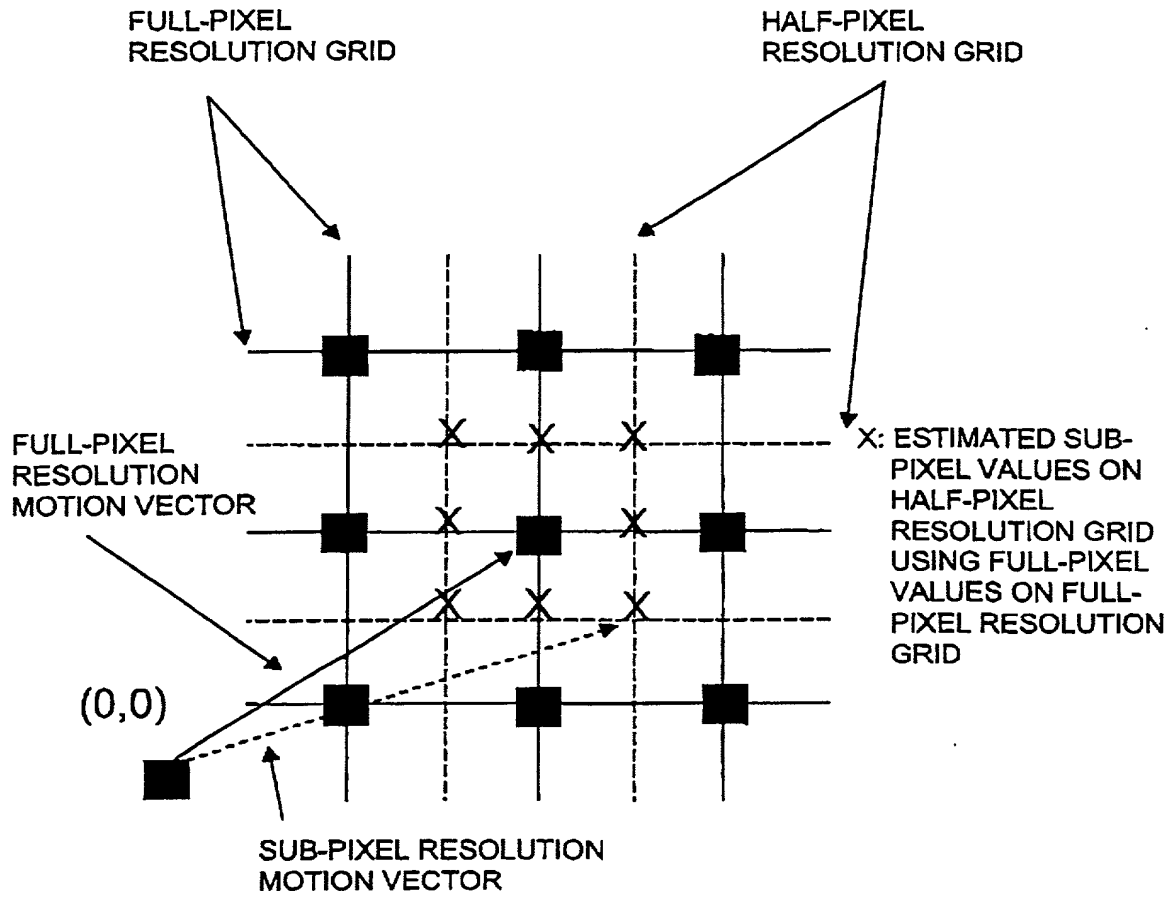


Fig. 5

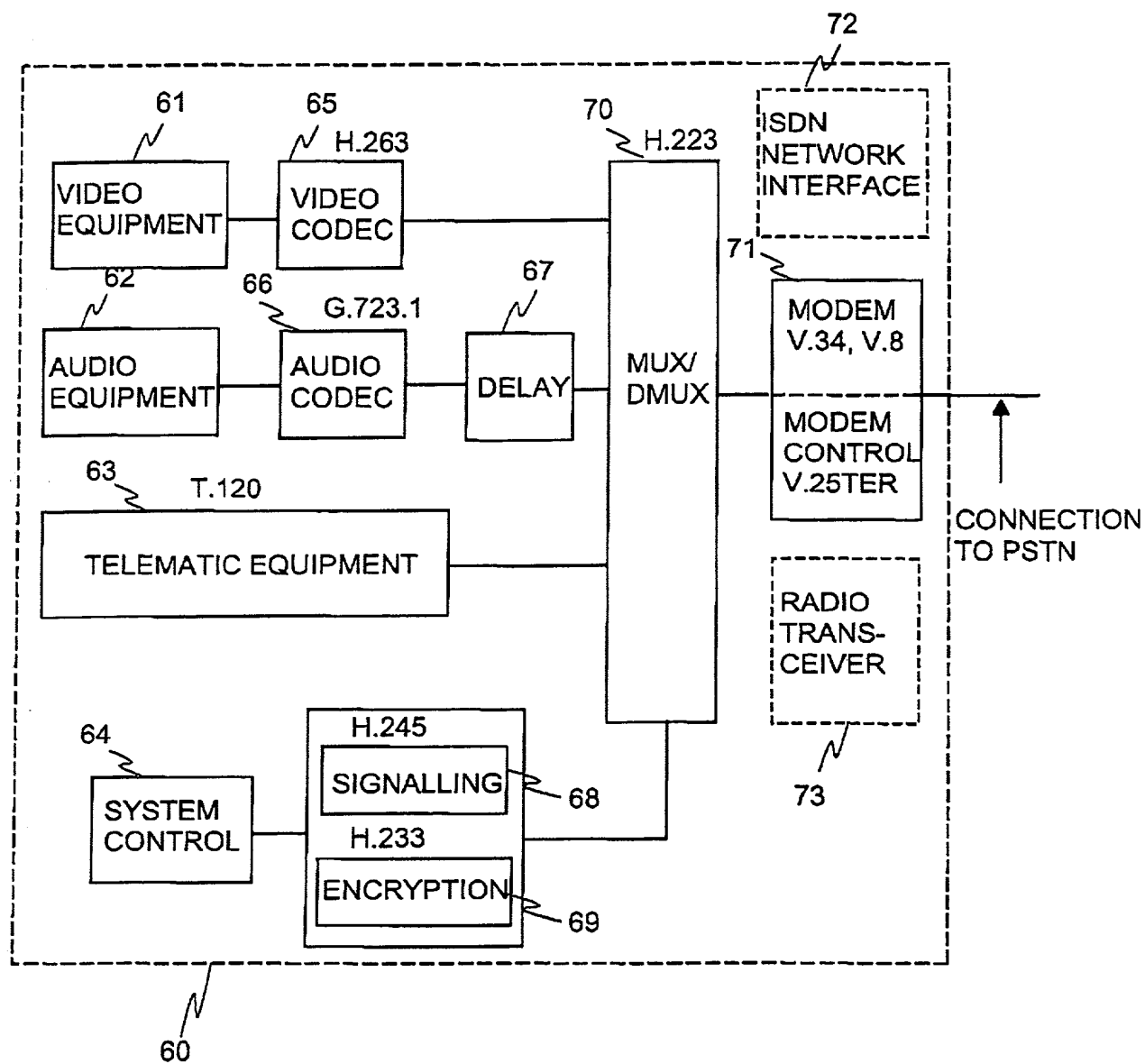
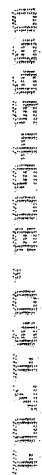


Fig. 6

[illegible]

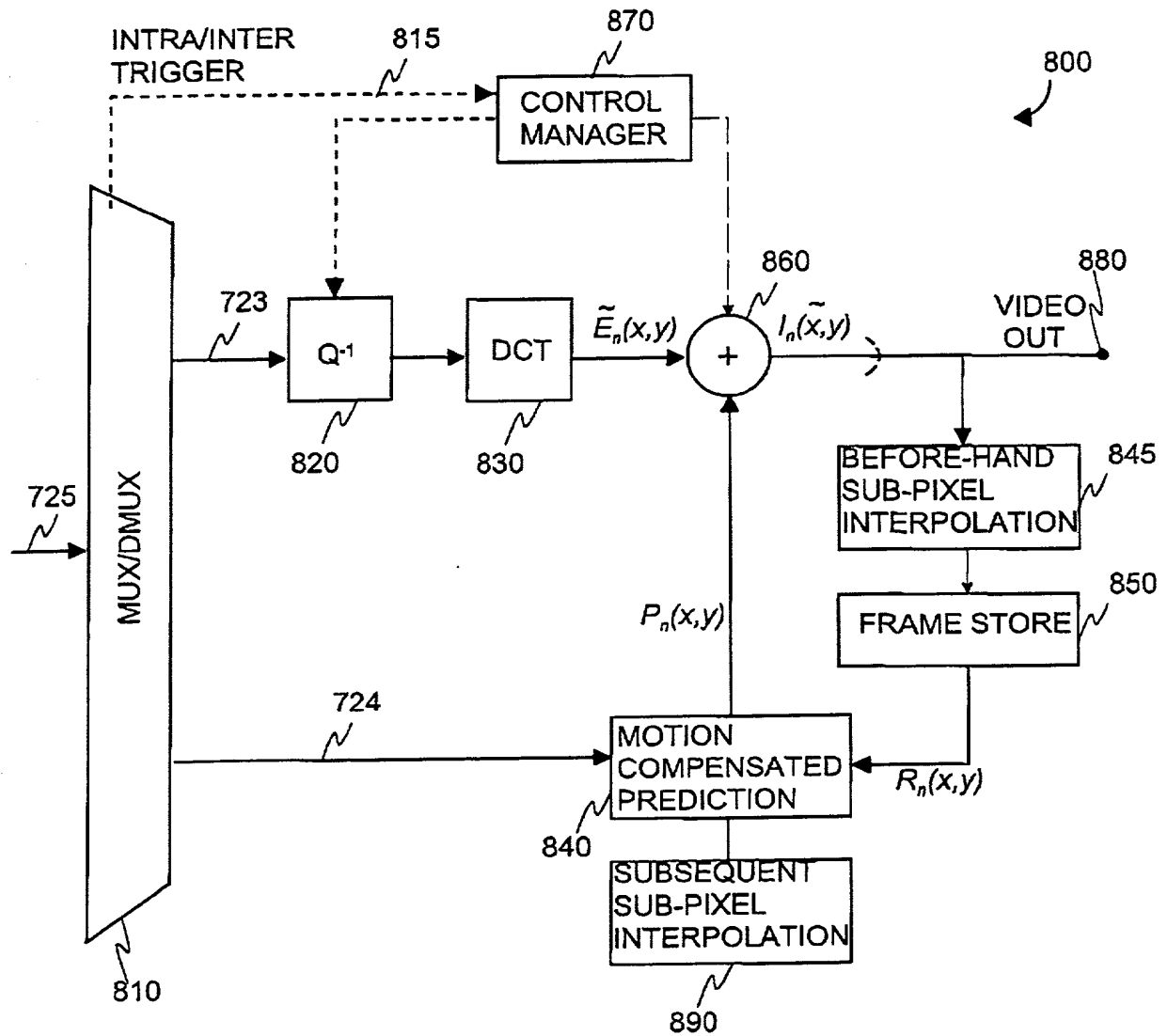


Fig. 8

12/29

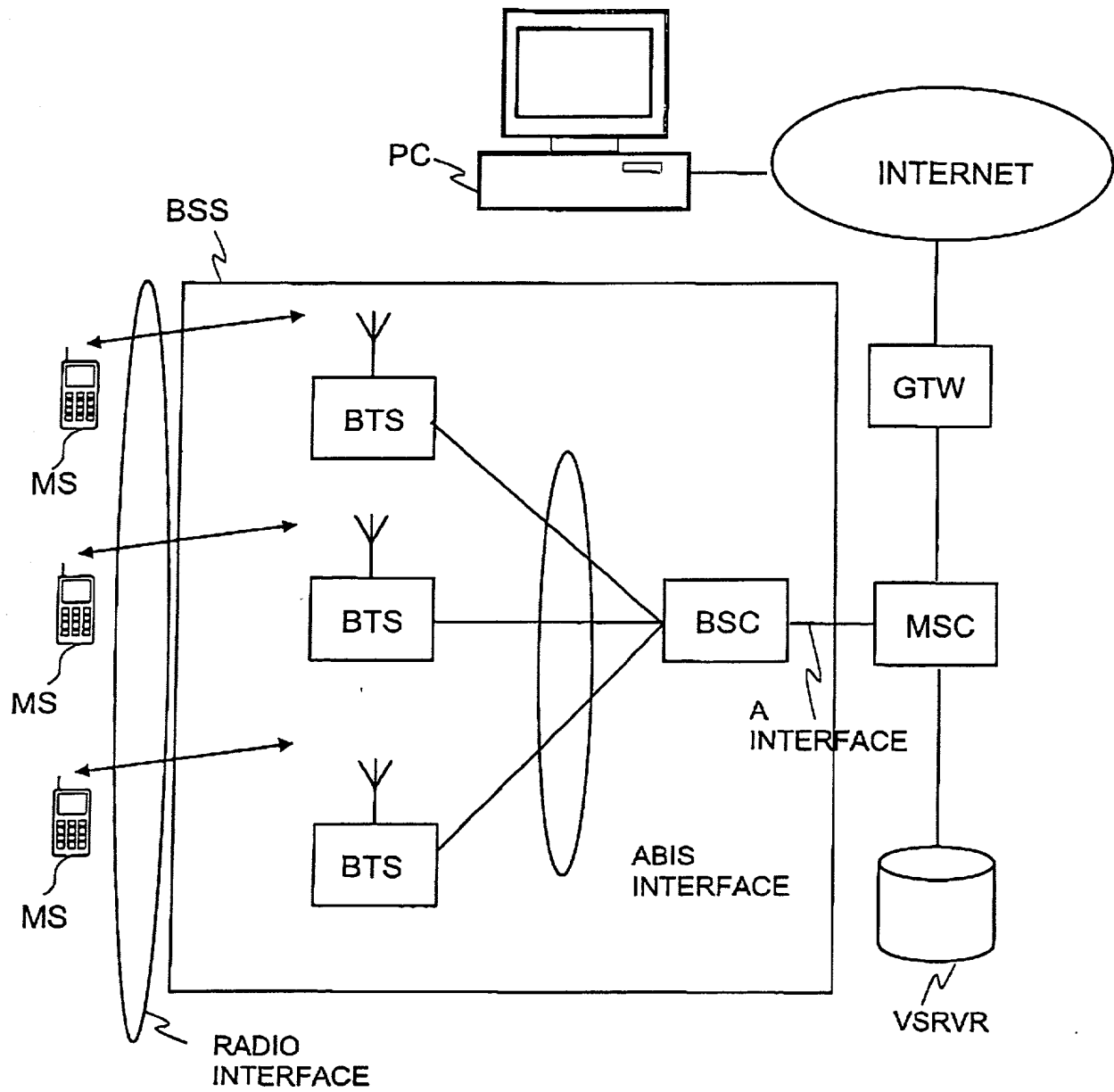


Fig. 11

<b>A</b>	d	<b>b</b>	d	<b>A</b>
e	e	e	e	
<b>c</b>	d	<b>c</b>	d	
e	e	e	f	
<b>A</b>				<b>A</b>

Fig. 12(a)

$A_1$	$A_2$	$A_3$	$d$	$b$	$d$	$A_4$	$A_5$	$A_6$
		$e$	$e$	$e$	$e$	$e$		
		$c$	$d$	$c$	$d$			
		$e$	$e$	$e$	$f$			
	$A$					$A$		

Figure12(b)

**A<sub>1</sub>**      **b<sub>1</sub>**

**A<sub>2</sub>**      **b<sub>2</sub>**

<b>A<sub>3</sub></b>	<b>d</b>	<b>b<sub>3</sub></b>	<b>d</b>	<b>A</b>
<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	
<b>c</b>	<b>d</b>	<b>c</b>	<b>d</b>	
<b>e</b>	<b>e</b>	<b>e</b>	<b>f</b>	
<b>A<sub>4</sub></b>		<b>b<sub>4</sub></b>		<b>A</b>

**A<sub>5</sub>**      **b<sub>5</sub>**

**A<sub>6</sub>**      **b<sub>6</sub>**

Figure 12(c)

<b>A</b>	d	b	d	<b>A</b>
e	g	e	g	
c	d	c	d	
e	g	e	f	
<b>A</b>				<b>A</b>

Fig. 13(a)

<b>A<sub>1</sub></b>	<b>A<sub>2</sub></b>	<b>A<sub>3</sub></b>	<b>d</b>	<b>b</b>	<b>d</b>	<b>A<sub>4</sub></b>	<b>A<sub>5</sub></b>	<b>A<sub>6</sub></b>
		<b>e</b>	<b>g</b>	<b>e</b>	<b>g</b>			
		<b>c</b>	<b>d</b>	<b>c</b>	<b>d</b>			
		<b>e</b>	<b>g</b>	<b>e</b>	<b>f</b>			
	<b>A</b>					<b>A</b>		

Figure13(b)

**A<sub>1</sub>**      **b<sub>1</sub>**

**A<sub>2</sub>**      **b<sub>2</sub>**

<b>A<sub>3</sub></b>	d	<b>b<sub>3</sub></b>	d	<b>A</b>
e	g	e	g	
c	d	c	d	
e	g	e	f	
<b>A<sub>4</sub></b>		<b>b<sub>4</sub></b>		<b>A</b>

**A<sub>5</sub>**      **b<sub>5</sub>**

**A<sub>6</sub>**      **b<sub>6</sub>**

Figure 13(c)

0954600 09101  
T02T60 80945660

Variable	Mean	SD	Min	Max
Age	38.5	10.5	25	55
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	1.5	10	15
Income	1500	500	1000	2500
Health status	0.5	0.5	0	1
Smoking status	0.5	0.5	0	1
Alcohol consumption	0.5	0.5	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.5	0.5	0	1
Sleep quality	0.5	0.5	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.5	0.5	0	1
Overall health	0.5	0.5	0	1
Physical activity	0.5	0.5	0	1
Mental health	0.5	0.5	0	1
Social support	0.5	0.5	0	1
Work-life balance	0.5	0.5	0	1
Financial stability	0.5	0.5	0	1
Family harmony	0.5	0.5	0	1
Personal growth	0.5	0.5	0	1
Community involvement	0.5	0.5	0	1
Environmental awareness	0.5	0.5	0	1
Cultural appreciation	0.5	0.5	0	1
Artistic expression	0.5	0.5	0	1
Volunteer work	0.5	0.5	0	1
Travel frequency	0.5	0.5	0	1
Language skills	0.5	0.5	0	1
Technology use	0.5	0.5	0	1
Reading habits	0.5	0.5	0	1
Music appreciation	0.5	0.5	0	1
Gardening interest	0.5	0.5	0	1
Cooking skills	0.5	0.5	0	1
Handicrafts	0.5	0.5	0	1
Collecting hobbies	0.5	0.5	0	1
Photography	0.5	0.5	0	1
Writing interests	0.5	0.5	0	1
Chess playing	0.5	0.5	0	1
Golfing	0.5	0.5	0	1
Fishing	0.5	0.5	0	1
Hiking	0.5	0.5	0	1
Swimming	0.5	0.5	0	1
Yoga practice	0.5	0.5	0	1
Meditation	0.5	0.5	0	1
Journaling	0.5	0.5	0	1
Volunteering	0.5	0.5	0	1
Charitable giving	0.5	0.5	0	1
Community service	0.5	0.5	0	1
Environmental activism	0.5	0.5	0	1
Cultural preservation	0.5	0.5	0	1
Artistic collaboration	0.5	0.5	0	1
Volunteer training	0.5	0.5	0	1
Travel blogging	0.5	0.5	0	1
Language learning	0.5	0.5	0	1
Technology workshops	0.5	0.5	0	1
Reading clubs	0.5	0.5	0	1
Music lessons	0.5	0.5	0	1
Gardening classes	0.5	0.5	0	1
Cooking courses	0.5	0.5	0	1
Handicraft workshops	0.5	0.5	0	1
Collecting seminars	0.5	0.5	0	1
Photography courses	0.5	0.5	0	1
Writing workshops	0.5	0.5	0	1
Chess tournaments	0.5	0.5	0	1
Golfing leagues	0.5	0.5	0	1
Fishing clubs	0.5	0.5	0	1
Hiking groups	0.5	0.5	0	1
Swimming pools	0.5	0.5	0	1
Yoga studios	0.5	0.5	0	1
Meditation centers	0.5	0.5	0	1
Journaling workshops	0.5	0.5	0	1
Volunteer projects	0.5	0.5	0	1
Charitable events	0.5	0.5	0	1
Community meetings	0.5	0.5	0	1
Environmental campaigns	0.5	0.5	0	1
Cultural festivals	0.5	0.5	0	1
Artistic exhibitions	0.5	0.5	0	1
Volunteer training	0.5	0.5	0	1
Travel blogging	0.5	0.5	0	1
Language learning	0.5	0.5	0	1
Technology workshops	0.5	0.5	0	1
Reading clubs	0.5	0.5	0	1
Music lessons	0.5	0.5	0	1
Gardening classes	0.5	0.5	0	1
Cooking courses	0.5	0.5	0	1

Variable	Mean	SD	Min	Max
Age	38.5	10.5	25	55
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	1.5	10	15
Income	1500	500	1000	2500
Health status	0.5	0.5	0	1
Smoking status	0.5	0.5	0	1
Alcohol consumption	0.5	0.5	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.5	0.5	0	1
Sleep quality	0.5	0.5	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.5	0.5	0	1
Overall health	0.5	0.5	0	1
Physical activity	0.5	0.5	0	1
Mental health	0.5	0.5	0	1
Social support	0.5	0.5	0	1
Work-life balance	0.5	0.5	0	1
Financial stability	0.5	0.5	0	1
Family harmony	0.5	0.5	0	1
Personal growth	0.5	0.5	0	1
Community involvement	0.5	0.5	0	1
Environmental awareness	0.5	0.5	0	1
Cultural appreciation	0.5	0.5	0	1
Artistic expression	0.5	0.5	0	1
Volunteer work	0.5	0.5	0	1
Travel frequency	0.5	0.5	0	1
Language skills	0.5	0.5	0	1
Technology use	0.5	0.5	0	1
Reading habits	0.5	0.5	0	1
Music appreciation	0.5	0.5	0	1
Gardening interest	0.5	0.5	0	1
Cooking skills	0.5	0.5	0	1
Handicrafts	0.5	0.5	0	1
Collecting hobbies	0.5	0.5	0	1
Photography	0.5	0.5	0	1
Writing interests	0.5	0.5	0	1
Chess playing	0.5	0.5	0	1
Golfing	0.5	0.5	0	1
Fishing	0.5	0.5	0	1
Hiking	0.5	0.5	0	1
Swimming	0.5	0.5	0	1
Yoga practice	0.5	0.5	0	1
Meditation	0.5	0.5	0	1
Journaling	0.5	0.5	0	1
Volunteering	0.5	0.5	0	1
Charitable giving	0.5	0.5	0	1
Community service	0.5	0.5	0	1
Environmental activism	0.5	0.5	0	1
Cultural preservation	0.5	0.5	0	1
Artistic collaboration	0.5	0.5	0	1
Volunteer training	0.5	0.5	0	1
Travel blogging	0.5	0.5	0	1
Language learning	0.5	0.5	0	1
Technology workshops	0.5	0.5	0	1
Reading clubs	0.5	0.5	0	1
Music lessons	0.5	0.5	0	1
Gardening classes	0.5	0.5	0	1
Cooking courses	0.5	0.5	0	1
Handicraft workshops	0.5	0.5	0	1
Collecting seminars	0.5	0.5	0	1
Photography courses	0.5	0.5	0	1
Writing workshops	0.5	0.5	0	1
Chess tournaments	0.5	0.5	0	1
Golfing leagues	0.5	0.5	0	1
Fishing clubs	0.5	0.5	0	1
Hiking groups	0.5	0.5	0	1
Swimming pools	0.5	0.5	0	1
Yoga studios	0.5	0.5	0	1
Meditation centers	0.5	0.5	0	1
Journaling workshops	0.5	0.5	0	1
Volunteer projects	0.5	0.5	0	1
Charitable events	0.5	0.5	0	1
Community meetings	0.5	0.5	0	1
Environmental campaigns	0.5	0.5	0	1
Cultural festivals	0.5	0.5	0	1
Artistic exhibitions	0.5	0.5	0	1
Volunteer training	0.5	0.5	0	1
Travel blogging	0.5	0.5	0	1
Language learning	0.5	0.5	0	1
Technology workshops	0.5	0.5	0	1
Reading clubs	0.5	0.5	0	1
Music lessons	0.5	0.5	0	1
Gardening classes	0.5	0.5	0	1
Cooking courses	0.5	0.5	0	1

<b>A<sub>1</sub></b>	<b>A<sub>2</sub></b>	<b>A<sub>3</sub></b>	<b>d</b>	<b>b</b>	<b>d</b>	<b>A<sub>4</sub></b>	<b>A<sub>5</sub></b>	<b>A<sub>6</sub></b>
		<b>e</b>	<b>h</b>	<b>f</b>	<b>h</b>			
		<b>b</b>	<b>g</b>	<b>c</b>	<b>g</b>			
		<b>e</b>	<b>h</b>	<b>f</b>	<b>i</b>			
		<b>A</b>				<b>A</b>		

Figure14(b)

**A<sub>1</sub>**

**A<sub>2</sub>**

<b>A<sub>3</sub></b>	d	b	d	<b>A</b>
e	h	f	h	
b	g	c	g	
e	h	f	i	
<b>A<sub>4</sub></b>				<b>A</b>

**A<sub>5</sub>**

**A<sub>6</sub>**

Figure 14(c)

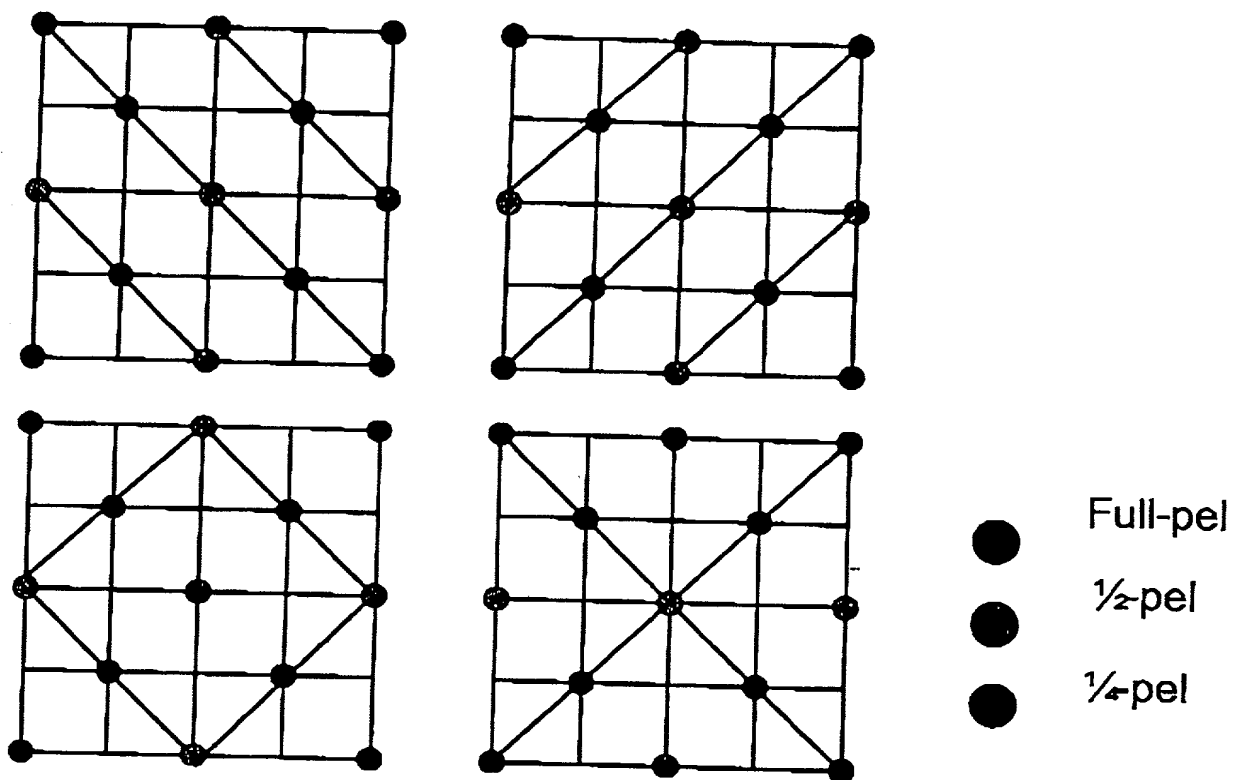


Fig. 15

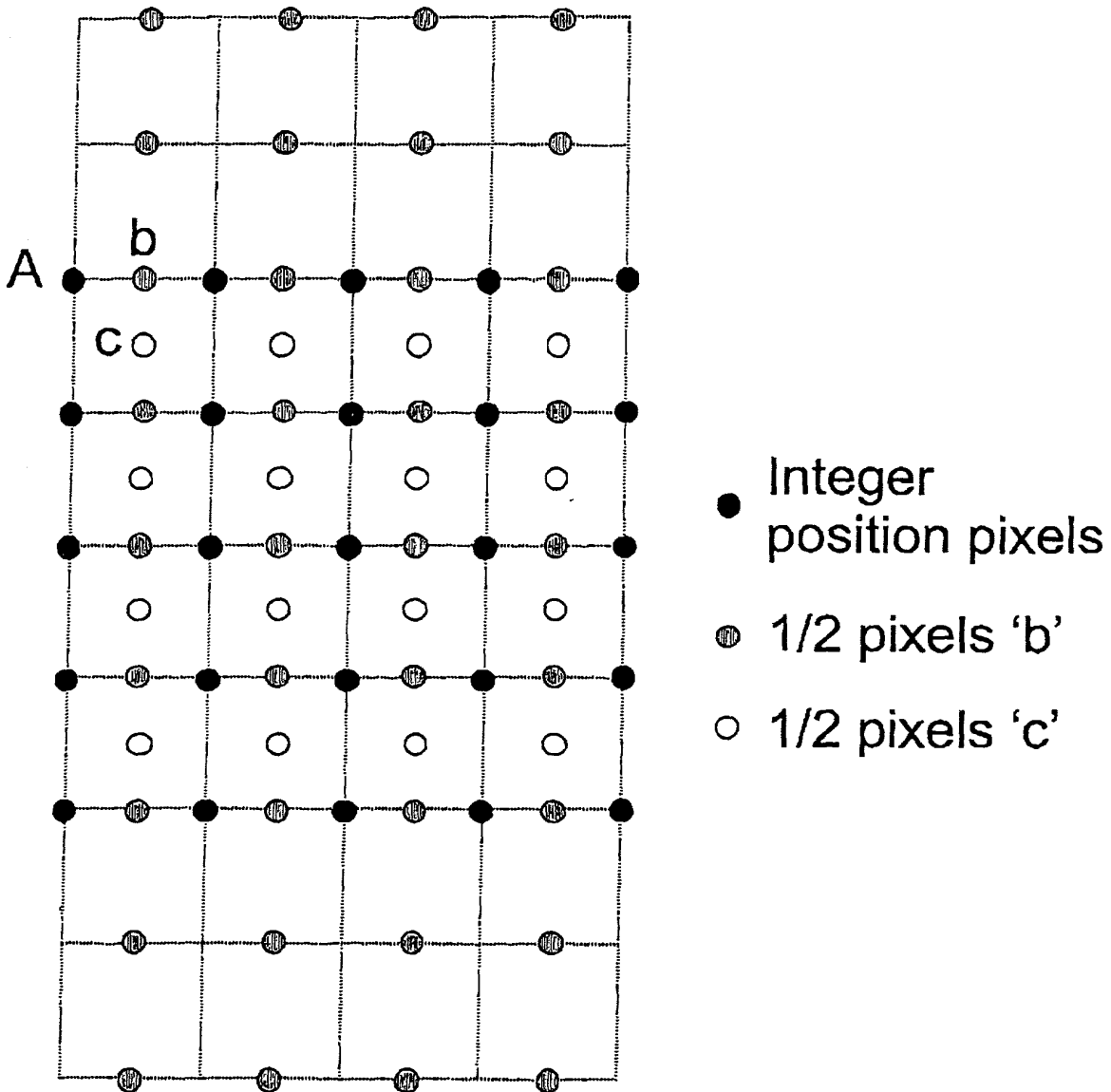


Fig. 16

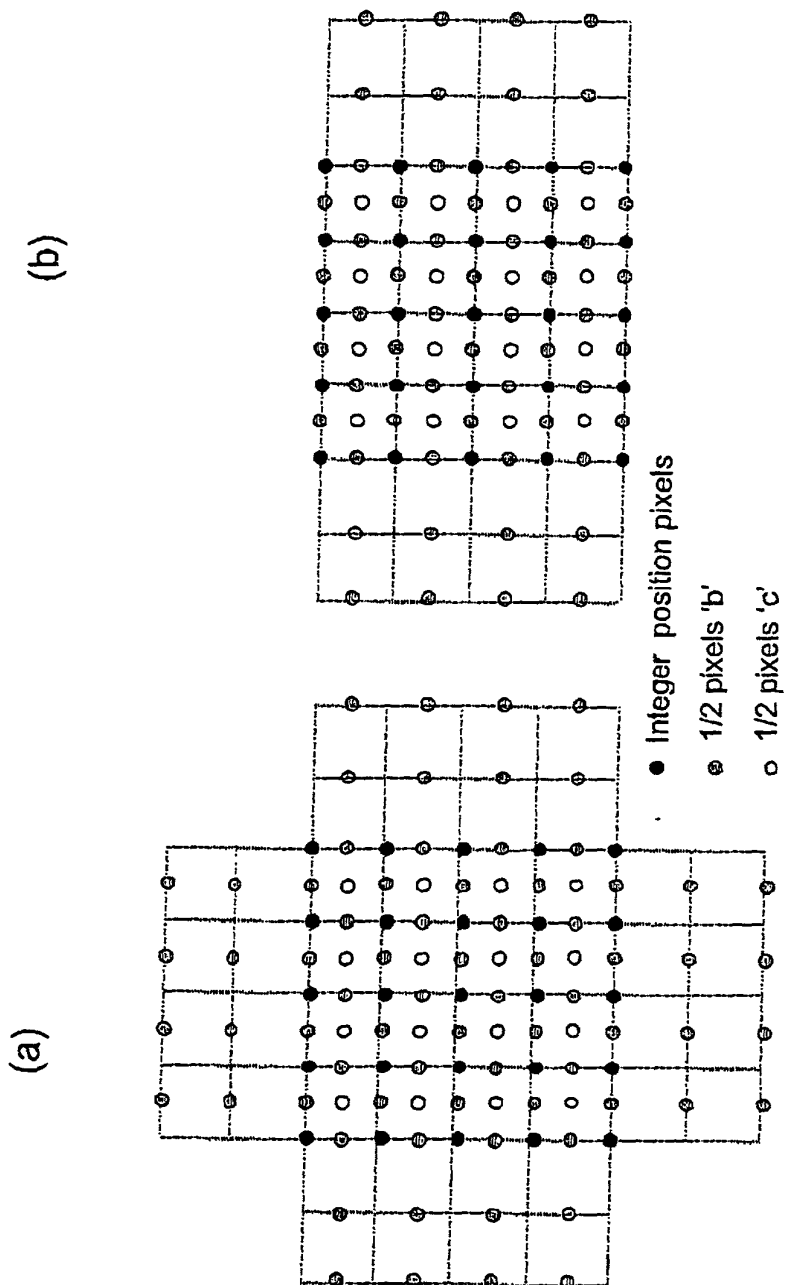
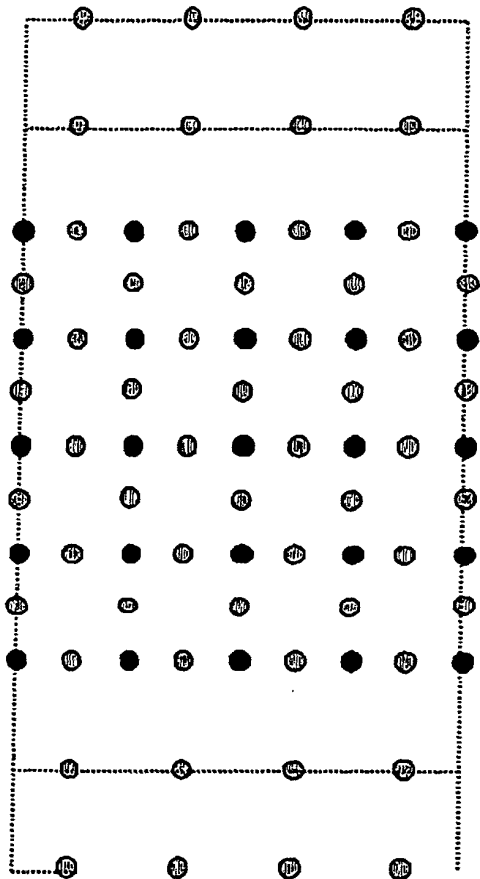
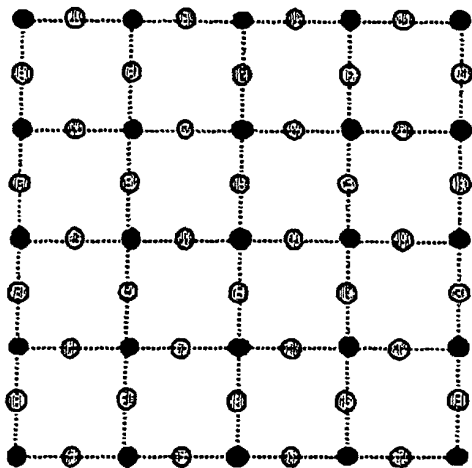


Fig. 17

(a)



(b)



25/29

● Integer position pixels      ○ 1/2 pixels 'b'

Fig. 18

26/29

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Fig. 19

A	d	b <sup>1</sup>	d	b <sup>2</sup>	d	b <sup>3</sup>	d	A
d	e	d	f	d	f	d	e	
b <sup>1</sup>	d	c <sup>11</sup>	d	c <sup>12</sup>	d	c <sup>13</sup>	d	
d	f	d	g	d	g	d	f	
b <sup>2</sup>	d	c <sup>21</sup>	d	c <sup>22</sup>	d	c <sup>23</sup>	d	
d	f	d	g	d	g	d	e	
b <sup>3</sup>	d	c <sup>31</sup>	d	c <sup>32</sup>	d	c <sup>33</sup>	d	
d	e	d	f	d	f	d	e	
A								

Figure 20

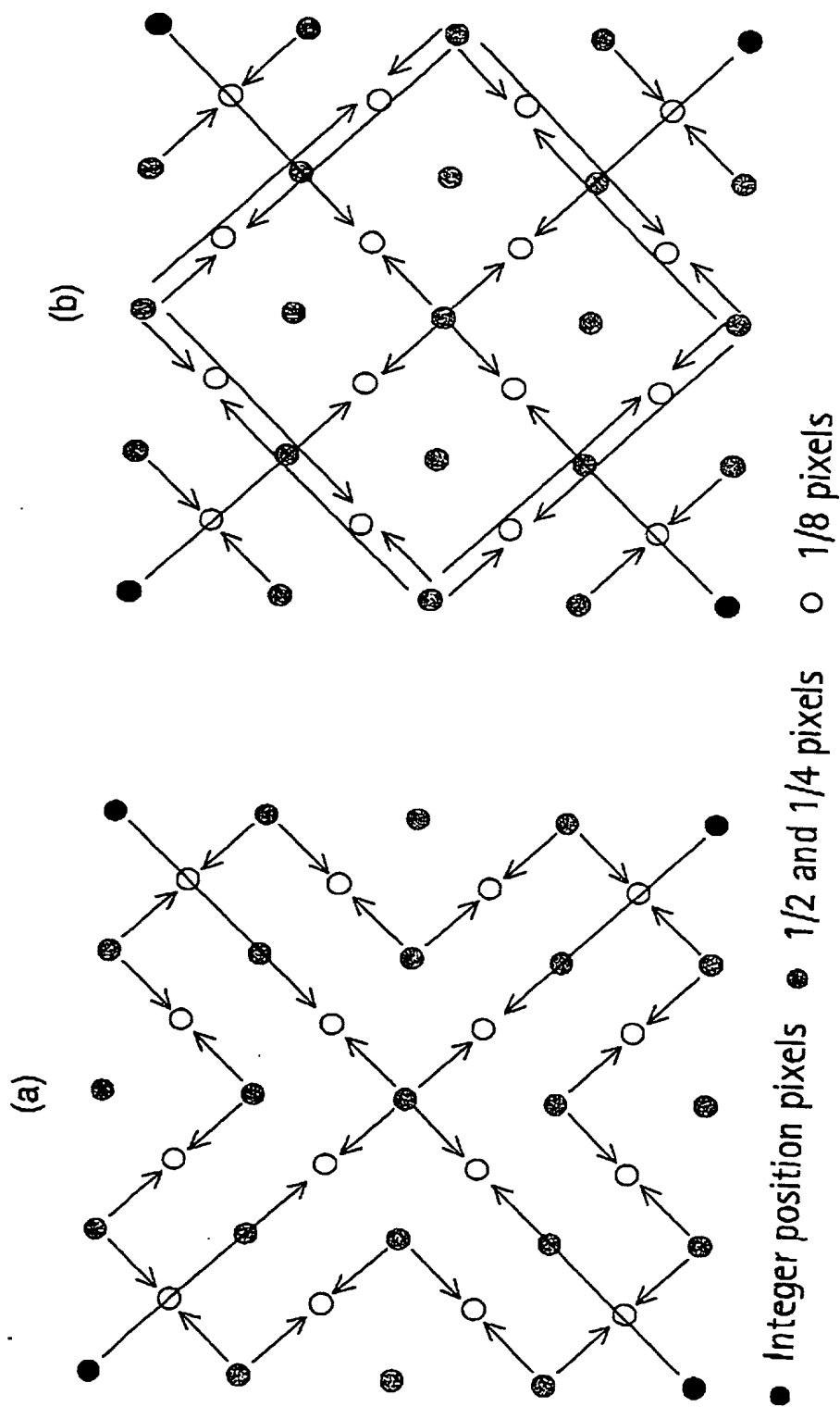


Fig. 21

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Fig. 22